



# STORMWATER VAULTS

CORVALLIS, OR



Pillar Consulting Group was the engineer of record for three large, underground stormwater detention vaults in the Brooklane Heights subdivision in Corvallis, Oregon. The vaults were all designed to support the City's vac truck and other roadway loading in conjunction with earth and hydraulic pressures. The largest vault was 80 foot by 100 foot in plan area, and over 15 feet deep. The roof was constructed of a reinforced concrete, two-way flat plate, with interior concrete columns. Pillar also designed the subsurface vault wall drainage systems, water stops and stormwater control structure sumps for each facility. The vaults were constructed as "public improvements by private contractor" as part of the larger subdivision project.



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